

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	258	polysiloxan\$ and (hexamethoxymethylmelamine or cymel near5 "303") and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo)	US-PGPUB; USPAT	OR	OFF	2008/01/10 08:38
S2	170	polysiloxan\$ and (hexamethoxymethylmelamine or cymel near5 "303") and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and (fluorinated perfluorinated perfluoroalkyl fluorine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/10 08:39
S3	241	(polysiloxan\$ siloxane dimethylsiloxane ) and (hexamethoxymethylmelamine or cymel near5 "303") and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and (fluorinated perfluorinated perfluoroalkyl fluorine)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/10 09:47
S4	242	(polysiloxan\$ siloxane dimethylsiloxane ) and (hexamethoxymethylmelamine or cymel near5 "303") and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and (fluorinated perfluorinated perfluoroalkyl fluorine fluoroalkyl)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/10 09:56
S5	1	S4 not S3	US-PGPUB; USPAT	OR	OFF	2008/01/10 09:56
S6	35	MERAMINE	US-PGPUB; USPAT	OR	OFF	2008/01/10 11:02
S7	2	("6440632").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/01/10 11:08
S8	1	1999-458055.NRAN.	DERWENT	OR	OFF	2008/01/10 11:08
S9	39	vps adj "1001"	US-PGPUB; USPAT	OR	OFF	2008/01/10 11:52
S10	1	(US-6271326-\$.did.	USPAT	OR	OFF	2008/01/10 11:57
S11	2	(US-6271326-\$.did.	USPAT; DERWENT	OR	OFF	2008/01/10 11:57
S12	1	(US-20030129931-\$.did.	US-PGPUB	OR	OFF	2008/01/10 14:02
S13	2	(US-20030129931-\$.did.	US-PGPUB; DERWENT	OR	OFF	2008/01/10 14:02
S14	1	("6221498").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/11 10:16

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("5958648").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/08 11:52
S2	6	((("6214416") or ("6335061") or ("6440569") or ("6485838") or ("6660394") or ("6737169"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/01/08 11:52
S3	10136	((430/270.1,280.1,325) or (522/126) or (427/508,510,515,517,518)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/01/08 15:39
S4	35	S3 and (antifoul\$ anti adj foul\$)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 12:12
S5	1	("20030207202").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/08 13:30
S6	2	("20030207202").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2008/01/08 15:10
S7	0	jp-2001089625-\$.did.	US-PGPUB; USPAT	OR	OFF	2008/01/09 11:05
S8	2	jp-2001089625-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:19
S9	2	jp-2002090996-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:21
S10	2	jp-09054432-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:28
S11	2	jp-2002040659-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:30
S12	2	jp-2003035961-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 15:33

# EAST Search History

S13	2	jp-2003262959-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:32
S14	1	S9 and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:41
S15	10136	((430/270.1,280.1,325) or (522/126) or (427/508,510,515,517,518)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/01/08 15:41
S16	9136	(photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 15:45
S17	74	(photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and S15 and hexamethylolmelamine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 18:07
S18	21	(photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and S15 and hexamethylolmelamine and (fluoro perfluoro fluorinat\$ )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 16:24
S19	1	("6165684").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/08 16:24
S20	53	(photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and S15 and hexamethylolmelamine not S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 16:53
S21	0	(photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and S15 and metholated	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 18:08
S22	37	metholated	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 18:10

## EAST Search History

S23	3826	methyloated	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 18:10
S24	83	methyloated and S15	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/08 18:10
S28	2	jp-10025388-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 11:06
S29	69114	vinyl adj monomer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 14:07
S30	1616	vinyl adj monomer same norbornene	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 14:07
S31	1046	vinyl adj monomer with norbornene	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 14:12
S32	15	vinyl adj monomer with norbornene and 430/270.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 14:08
S33	165	vinyl adj monomer near10 norbornene	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/09 14:12
S35	530	nishikawa.inv. with akira.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 15:35

## EAST Search History

S36	8	nishikawa.inv. with akira.inv. and watanabe.inv. with fusaka.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 15:36
S37	10136	((430/270.1,280.1,325) or (522/126) or (427/508,510,515,517,518)).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:32
S38	1251	S37 and siloxan\$	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:43
S39	1026	S37 and polysiloxan\$	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:52
S40	1835	S38 S39	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:44
S41	1756	(S38 S39) and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo)	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:44
S42	996	(S38 S39) and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and (\$crosslink\$)	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:46
S43	286	(S38 S39) and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and (\$crosslink\$) and (methoxymethyl\$)	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:47
S44	66	(S38 S39) and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo) and (\$crosslink\$) and (hexamethoxymethyl\$)	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:48
S45	311	S43 or S44	US-PGPUB; USPAT	OR	OFF	2008/01/09 16:48
S46	2388	polysiloxan\$ with (perfluoro fluorinated fluoropolymer fluoro)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 16:52
S47	45	polysiloxan\$ with (perfluoro fluorinated fluoropolymer fluoro) and (methoxymethyl or hexamethoxymethyl or hexamethoxymethylmelamine or cymel near5 "303")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 17:04

94 586

## EAST Search History

S48	1017	polysiloxan\$ and (methoxymethyl or hexamethoxymethyl or hexamethoxymethylmelamine or cymel near5 "303") and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 17:05
S49	259	polysiloxan\$ and (hexamethoxymethylmelamine or cymel near5 "303") and (photoa\$ photob\$ photoc\$ photod\$ photoe\$ photof\$ photog\$ photoh\$ photoi\$ photoj\$ photok\$ photol\$ photom\$ photon\$ photoo\$ photop\$ photoq\$ photor\$ photos\$ photot\$ photou\$ photov\$ photow\$ photoX\$ photoY\$ photoZ\$ photo)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/09 17:06

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11 Jan 2008

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NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 3 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 4 AUG 13 CA/CAPplus enhanced with additional kind codes for granted patents  
NEWS 5 AUG 20 CA/CAPplus enhanced with CAS indexing in pre-1907 records  
NEWS 6 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB  
NEWS 7 AUG 27 USPATOLD now available on STN  
NEWS 8 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
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NEWS 10 SEP 13 FORIS renamed to SOFIS  
NEWS 11 SEP 13 INPADOCDB enhanced with monthly SDI frequency  
NEWS 12 SEP 17 CA/CAPplus enhanced with printed CA page images from 1967-1998  
NEWS 13 SEP 17 CAPplus coverage extended to include traditional medicine patents  
NEWS 14 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
NEWS 15 OCT 02 CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt  
NEWS 16 OCT 19 BEILSTEIN updated with new compounds  
NEWS 17 NOV 15 Derwent Indian patent publication number format enhanced  
NEWS 18 NOV 19 WPIX enhanced with XML display format  
NEWS 19 NOV 30 ICSD reloaded with enhancements  
NEWS 20 DEC 04 LINPADOCDB now available on STN  
NEWS 21 DEC 14 BEILSTEIN pricing structure to change  
NEWS 22 DEC 17 USPATOLD added to additional database clusters  
NEWS 23 DEC 17 IMSDRUGCONF removed from database clusters and STN  
NEWS 24 DEC 17 DGENE now includes more than 10 million sequences  
NEWS 25 DEC 17 TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment  
NEWS 26 DEC 17 MEDLINE and LMEMLINE updated with 2008 MeSH vocabulary  
NEWS 27 DEC 17 CA/CAPplus enhanced with new custom IPC display formats  
NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content from USPATOLD  
NEWS 29 JAN 02 STN pricing information for 2008 now available  
  
NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.  
  
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FILE LAST UPDATED: 10 Jan 2008 (20080110/ED)

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=> s antifoul? or anti adj foul?

9191 ANTIFOUL?

479840 ANTI

284 ADJ

26178 FOUL?

0 ANTI ADJ FOUL?

(ANTI(W)ADJ(W)FOUL?)

L1 9191 ANTIFOUL? OR ANTI ADJ FOUL?

=> s l1 and photo?

1545419 PHOTO?

L2 463 L1 AND PHOTO?

=> s l2 and (fluoro? or perfluoro? or difluor? or trifluor? or tetrafluor? or pentafluor? or hexafluor? or heptafluor?)

457518 FLUORO?

55846 PERFLUORO?

61908 DIFLUOR?

174987 TRIFLUOR?

89526 TETRAFLUOR?

29091 PENTAFLUOR?

84138 HEXAFLUOR?

7707 HEPTAFLUOR?

L3 72 L2 AND (FLUORO? OR PERFLUORO? OR DIFLUOR? OR TRIFLUOR? OR TETRAFLUOR? OR PENTAFLUOR? OR HEXAFLUOR? OR HEPTAFLUOR?)



=> s l3 and (methylo1? or dimethylo1? or trimethylo1? or tetramethylo1? or polymethylo1?)

14450 METHYLO1?  
8969 DIMETHYLO1?  
31652 TRIMETHYLO1?  
840 TETRAMETHYLO1?  
307 POLYMETHYLO1?

L4 1 L3 AND (METHYLO1? OR DIMETHYLO1? OR TRIMETHYLO1? OR TETRAMETHYLO1? OR POLYMETHYLO1?)

=> d all

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 1998:767816 CAPLUS  
DN 130:67885  
ED Entered STN: 08 Dec 1998  
TI Anticorrosive multilayer coatings for steel structure and their coating method  
IN Nakayama, Shunsuke; Ishida, Noriyuki; Matsuda, Mitsuhiro  
PA Dai Nippon Toryo Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM B01J035-02  
ICS B05D001-38; B05D007-14; B05D007-24  
CC 42-10 (Coatings, Inks, and Related Products)  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10314596	A	19981202	JP 1997-126153	19970516
	JP 3260097	B2	20020225		
PRAI	JP 1997-126153		19970516		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 10314596	ICM	B01J035-02
	ICS	B05D001-38; B05D007-14; B05D007-24
	IPCI	B01J0035-02 [ICM,6]; B05D0001-38 [ICS,6]; B05D0007-14 [ICS,6]; B05D0007-24 [ICS,6]
	IPCR	B01J0035-00 [I,C*]; B01J0035-02 [I,A]; B05D0001-38 [I,A]; B05D0001-38 [I,C*]; B05D0005-00 [I,A]; B05D0005-00 [I,C*]; B05D0007-14 [I,A]; B05D0007-14 [I,C*]; B05D0007-24 [I,A]; B05D0007-24 [I,C*]

AB The coatings comprise, from the substrate surface, a Zn-rich paint, a synthetic resin base coating, an intermediate coating containing hydrolyzable silyl group-containing vinyl polymers (I), hydrolyzed organosilanes (II) or their partially condensates and pigments, and a top coating containing I, II or solvent-soluble fluoropolymers, and TiO<sub>2</sub> photocatalysts in an amount so that the PWC (pigment weight concentration) reaches 45-85%.

The coatings show high NO<sub>x</sub>-removing activity and excellent antifouling property. Thus, an intermediate coating was obtained from a 55%-solids copolymer of iso-Bu methacrylate, 2-ethylhexyl methacrylate and CH<sub>2</sub>:CMeCO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>Si(OMe)<sub>3</sub>, 100, TiO<sub>2</sub> 25, CaCO<sub>3</sub> 15, BaSO<sub>4</sub> 10 parts and Bu<sub>2</sub>Sn laurate. A top coating was obtained from a hydrolytic polycondensate of MeSi(OEt)<sub>4</sub> 100, SSP 25 (photocatalyst TiO<sub>2</sub>) 160, xylol 10, iso-Pr alc. 10 parts, and Bu<sub>2</sub>Sn laurate. Coating pre-blasted steel plate with a Zn-rich paint (Zn concentration 70%), a basecoat containing Epikote 828-Tohmid 245 copolymer, the intermediate coating, and the top coating gave a coated steel showing good resistance to salt spray and weather and NO<sub>x</sub>-removing ability.

ST anticorrosive coating nitrogen oxide removal activity; photocatalyst titania multilayer antifouling coating;

acrylic alkoxysilane condensate anticorrosive antifouling coating; zinc rich multilayer anticorrosive antifouling coating; metal anticorrosive coating photocatalyst titania pigment

IT Corrosion prevention  
 Photolysis catalysts  
 (NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Polysiloxanes, uses  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (acrylic, intermediate coating; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Coating materials  
 Coating materials  
 (anticorrosive, weather-resistant, antifouling; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Coating materials  
 (antifouling, anticorrosive, weather-resistant; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Epoxy resins, uses  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (base coatings; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Acrylic polymers, uses  
 Chlorinated natural rubber  
 Phenolic resins, uses  
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (basecoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Polyesters, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (basecoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Soybean oil  
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (reaction products with alkyd resins, basecoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Alkyd resins  
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (soybean oil-modified, basecoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT Fluoropolymers, uses  
 Silsesquioxanes  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (topcoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 11104-93-1, NOx, miscellaneous  
 RL: MSC (Miscellaneous)  
 (NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 90398-42-8P, Bisphenol A-epichlorohydrin-Tohmid 245 copolymer  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(base coatings; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 9003-22-9  
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (basecoat Vinylite VYHH (a vinyl chloride copolymer); NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 110-63-4DP, Butylene glycol, polyesters with adipic acid, triol, phthalic acid and trimethylolpropane, crosslinked with polyisocyanate  
 124-04-9DP, Adipic acid, polyesters with butylene glycol, triol, phthalic acid and trimethylolpropane, crosslinked with polyisocyanate  
 108362-54-5P, Adipic acid-butylene glycol-Desmophen 1100-Mitec GP  
 101A-phthalic acid-trimethylolpropane copolymer  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (basecoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 70535-97-6, Hitanol 1131 97047-43-3, Acrylic A 169  
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (basecoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 217945-76-1P, Isobutyl methacrylate-2-ethylhexyl methacrylate- $\gamma$ -methacryloxypropyltrimethoxysilane copolymer  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (intermediate coating; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 13463-67-7, Titania, uses  
 RL: CAT (Catalyst use); USES (Uses)  
 (photocatalyst/pigment; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 12732-02-4, SS 400, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (substrate; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 25930-91-0P, Methyltriethoxysilane homopolymer 151755-31-6P, Coronate HX-Lumiflon LF 200 copolymer 153315-80-1P, Methyltriethoxysilane homopolymer, ladder SRU  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (topcoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 11099-06-2, Ethyl Silicate 40  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (topcoat; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

IT 7440-66-6, Zinc, uses  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (undercoatings; NOx-removing multilayer anticorrosive antifouling coatings for metal surface)

=> d his

(FILE 'HOME' ENTERED AT 10:09:57 ON 11 JAN 2008)

FILE 'CAPLUS' ENTERED AT 10:10:24 ON 11 JAN 2008

L1 9191 S ANTIFOUL? OR ANTI ADJ FOUL?  
 L2 463 S L1 AND PHOTO?  
 L3 72 S L2 AND (FLUORO? OR PERFLUORO? OR DIFLUOR? OR TRIFLUOR? OR TET  
 L4 1 S L3 AND (METHYLOL? OR DIMETHYLOL? OR TRIMETHYLOL? OR TETRAMETH

=> s l3 and cymel

3290 CYMEL

L5 1 L3 AND CYMEL

=> s l5 not l4

L6 1 L5 NOT L4

=> d all

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2001:581572 CAPLUS

DN 135:159174

ED Entered STN: 10 Aug 2001

TI Radiographic image converter panel

IN Ogawa, Hiroshi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G21K004-00

CC 71-7 (Nuclear Technology)

Section cross-reference(s): 38, 63, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001215299	A	20010810	JP 2000-22358	20000131
PRAI	JP 2000-22358		20000131		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001215299	ICM	G21K004-00
	IPCI	G21K0004-00 [ICM,7]
	IPCR	G21K0004-00 [I,C*]; G21K0004-00 [I,A]

AB The invention relates to a radiog. image converter panel comprising a photostimulable phosphor-containing layer, wherein the protective layer is made of the polysiloxane segment-containing fluoropolymer in which the fluorine content is  $\geq 30\%$  and the polystyrene-based number average mol. weight is  $\geq 5000$ , for enhancing the scratch prevention and antifouling properties.

ST radiog image converter panel polysiloxane fluoropolymer

IT Aminoplasts

RL: MOA (Modifier or additive use); USES (Uses)  
 (crosslinking agent; radiog. image converter panel)

IT Phosphors

(photostimulable; radiog. image converter panel)

IT Radiation detectors

X-ray detectors  
 (radiog. image converter panel)

IT Fluoropolymers, uses

Polysiloxanes, uses  
 RL: DEV (Device component use); USES (Uses)  
 (radiog. image converter panel)

IT Aminoplasts

RL: MOA (Modifier or additive use); USES (Uses)  
 (radiog. image converter panel)

IT Emulsifying agents

(reactive; radiog. image converter panel)

IT Optical imaging devices

(x-ray converters; radiog. image converter panel)

IT 9003-08-1, Cymel 303 15968-37-3, Cymel 1170  
 164325-70-6, Mycoat 106  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (crosslinking agent; radiog. image converter panel)

IT 158947-07-0, VPS 1001  
 RL: CAT (Catalyst use); USES (Uses)  
 (radiog. image converter panel)

IT 248949-40-8P 248949-48-6P 248949-52-2P 352430-40-1P 352430-42-3P  
 352430-45-6P  
 RL: DEV (Device component use); IMF (Industrial manufacture); PREP  
 (Preparation); USES (Uses)  
 (radiog. image converter panel)

IT 16910-54-6, Europium ion(2+), uses 112286-11-0, Barium bromide fluoride  
 iodide (BaBr0.85FI0.15)  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (radiog. image converter panel)

=> s 9003-08-1/rn and l3  
 19726 9003-08-1  
 1877 9003-08-1D  
 18003 9003-08-1/RN  
 (9003-08-1 (NOTL) 9003-08-1D )

L7 3 9003-08-1/RN AND L3

=> s l7 not l6  
 L8 2 L7 NOT L6

=> d all 1-3

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
 AN 2000:762039 CAPLUS  
 DN 133:323087  
 ED Entered STN: 31 Oct 2000  
 TI Antifouling and antisoiling coating compositions  
 IN Watanabe, Yutaka; Murawaki, Toshihiro; Kitamura, Toru  
 PA Nippon Biso K. K., Japan; Toho Kengyo K. K.  
 SO Jpn. Kokai Tokkyo Koho, 4 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C09D005-16  
 ICS C09D005-00; C09D183-04; C09D201-00  
 CC 42-10 (Coatings, Inks, and Related Products)  
 Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000303004	A	20001031	JP 1999-114704	19990422
PRAI	JP 1999-114704		19990422		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000303004	ICM	C09D005-16
	ICS	C09D005-00; C09D183-04; C09D201-00
	IPCI	C09D0005-16 [ICM,7]; C09D0005-00 [ICS,7]; C09D0183-04 [ICS,7]; C09D0201-00 [ICS,7]
	IPCR	C09D0005-16 [I,C*]; C09D0005-16 [I,A]; C09D0005-00 [I,C*]; C09D0005-00 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]; C09D0201-00 [I,C*]; C09D0201-00 [I,A]

AB Title compns. contain anatase TiO2 pigments, (organo)siloxanes, and organic resins as major components at a preferable TiO2/siloxane of 20-300%. A typical composition comprised ST 01 20, KC 89 60, Fluonate K 704 120, Bu2Sn dilaurate 0.001, xylene 20, PhMe 20, and Burnock DN 980S 15 g.

ST antifouling antisoiling coating photocatalyst titania  
siloxane polymeric binder

IT Polysiloxanes, uses  
RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES  
(Uses)  
(KC 89; photocatalytic TiO2- and siloxane-containing polymer  
binder coatings with antisoiling and antifouling ability)

IT Coating materials  
(antisoiling; photocatalytic TiO2- and siloxane-containing  
polymer binder coatings with antisoiling and antifouling  
ability)

IT Antifouling agents  
(photocatalytic TiO2- and siloxane-containing polymer binder  
coatings with antisoiling and antifouling ability)

IT Acrylic polymers, uses  
Aminoplasts  
Fluoropolymers, uses  
Polyamides, uses  
Polyesters, uses  
Polyurethanes, uses  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(photocatalytic TiO2- and siloxane-containing polymer binder  
coatings with antisoiling and antifouling ability)

IT 249288-32-2P, Burnock DN 980S-Fluonate K 704 copolymer  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM  
(Technical or engineered material use); PREP (Preparation); USES (Uses)  
(photocatalytic TiO2- and siloxane-containing polymer binder  
coatings with antisoiling and antifouling ability)

IT 13463-67-7, ST 01, uses  
RL: MOA (Modifier or additive use); USES (Uses)  
(photocatalytic TiO2- and siloxane-containing polymer binder  
coatings with antisoiling and antifouling ability)

IT 9002-86-2, PVC 9003-08-1, Melamine resin  
RL: POF (Polymer in formulation); TEM (Technical or engineered material  
use); USES (Uses)  
(photocatalytic TiO2- and siloxane-containing polymer binder  
coatings with antisoiling and antifouling ability)

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1998:640312 CAPLUS

DN 129:261828

ED Entered STN: 09 Oct 1998

TI Antifouling silicone emulsion coating compositions, manufacture  
thereof and antifouling articles coated therewith

IN Takahama, Koichi; Yamaki, Takeyuki; Inoue, Minoru; Goto, Akiharu; Ikenaga,  
Junko; Kishimoto, Hirotugu

PA Matsushita Electric Works, Ltd., Japan

SO PCT Int. Appl., 86 pp.  
CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM C09D183-06  
ICS C08L083-06; C08K003-22

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9841589	A1	19980924	WO 1998-JP1071	19980313
	W: CA, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 10316937	A	19981202	JP 1998-58665	19980310
	JP 2920140	B2	19990719		
	CA 2253504	A1	19980924	CA 1998-2253504	19980313
	CA 2253504	C	20021119		

EP 942052	A1	19990915	EP 1998-907224	19980313
EP 942052	B1	20060705		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
KR 2000011140	A	20000225	KR 1998-709300	19981114
US 6221498	B1	20010424	US 1999-180763	19990111
PRAI JP 1997-61573	A	19970314		
WO 1998-JP1071	W	19980313		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9841589	ICM	C09D183-06
	ICS	C08L083-06; C08K003-22
	IPCI	C09D0183-06 [ICM,6]; C08L0083-06 [ICS,6]; C08L0083-00 [ICS,6,C*]; C08K0003-22 [ICS,6]; C08K0003-00 [ICS,6,C*]
	IPCR	C08K0003-00 [I,C*]; C08K0003-22 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
JP 10316937	ECLA	C08K003/22+L83/04; C09D183/04+F
	IPCI	C09D0183-06 [ICM,6]; C09D0005-16 [ICS,6]; C09D0007-12 [ICS,6]; C09D0115-02 [ICS,6]; C09D0115-00 [ICS,6,C*]; C09D0127-12 [ICS,6]; C09D0133-08 [ICS,6]; C09D0161-06 [ICS,6]; C09D0161-00 [ICS,6,C*]; C09D0161-28 [ICS,6]; C09D0161-20 [ICS,6,C*]; C09D0163-00 [ICS,6]; C09D0167-02 [ICS,6]; C09D0167-08 [ICS,6]; C09D0175-04 [ICS,6]
	IPCR	C09D0005-16 [I,A]; C09D0005-16 [I,C*]; C09D0007-12 [I,A]; C09D0007-12 [I,C*]; C09D0115-00 [I,C*]; C09D0115-02 [I,A]; C09D0127-12 [I,A]; C09D0127-12 [I,C*]; C09D0133-08 [I,A]; C09D0133-08 [I,C*]; C09D0161-00 [I,C*]; C09D0161-06 [I,A]; C09D0161-20 [I,C*]; C09D0161-28 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0167-02 [I,A]; C09D0167-02 [I,C*]; C09D0167-08 [I,A]; C09D0167-08 [I,C*]; C09D0175-04 [I,A]; C09D0175-04 [I,C*]; C09D0183-06 [I,A]; C09D0183-06 [I,C*]
CA 2253504	IPCI	C09D0183-06 [ICM,6]; C09D0007-12 [ICS,6]; C09D0005-16 [ICS,6]
	IPCR	C08K0003-00 [I,C*]; C08K0003-22 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
EP 942052	IPCI	C08K0003-00 [I,C]; C08L0083-00 [I,C]; C09D0183-06 [I,C]; C09D0183-06 [I,A]; C08K0003-22 [I,A]; C08L0083-06 [I,A]
	IPCR	C08K0003-00 [I,C*]; C08K0003-22 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
KR 2000011140	ECLA	C08K003/22+L83/04; C09D183/04+F
	IPCI	C09D0183-06 [ICM,7]; C08K0003-22 [ICS,7]; C08K0003-00 [ICS,7,C*]; C08L0083-06 [ICS,7]; C08L0083-00 [ICS,7,C*]
	IPCR	C08K0003-00 [I,C*]; C08K0003-22 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
US 6221498	ECLA	C08K003/22+L83/04; C09D183/04+F
	IPCI	B32B0009-04 [ICM,7]
	IPCR	C08K0003-00 [I,C*]; C08K0003-22 [I,A]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
	NCL	428/447.000; 106/287.120; 428/450.000; 428/451.000; 524/413.000; 524/497.000; 524/588.000; 524/837.000; 524/839.000; 525/902.000
	ECLA	C08K003/22+L83/04; C09D183/04+F
AB		The title compns. comprise the following components (A)-(D), with the C content 5-80% based on overall solids in the composition: (A) a partial hydrolyzate of average composition formula R <sub>2</sub> aSiOb(OR <sub>1</sub> )c(OH)d (R <sub>1</sub> , R <sub>2</sub> = hydrocarbyl; a, b, c, d = nos. satisfying a + 2b + c + d = 4, 0 ≤ a < 3; 0 < b < 2; 0 < c < 4; 0 < d < 4) and having Mw 600-5,000 (polystyrene-equivalent), (B) a nonionic surfactant or an anionic surfactant, (C) a photoconductor, and (D) water. A reactive terminal silanol group-containing polysiloxane 50% solution in toluene was prepared from methyltrichlorosilane 44.8, dimethyldichlorosilane 38.7, and

phenyltrichlorosilane 84.6 parts, and the solution (100 parts) was mixed with 5 parts methyltrimethoxysilane and 5 parts dimethyldimethoxysilane and treated dropwise under stirring at 60° with a solution from 0.6 part dibutyltin dilaurate and 10 parts toluene, further stirred for 40 min, and concentrated to obtain a 80%-solids solution of desired partial hydrolyzate of

Mw

2000. The above solution (50 parts) was treated with 2 parts polyethylene glycol nonylphenyl ether as polymerization initiator, concentrated in vacuo

under

stirring, stirred with 5 parts polyethylene glycol nonylphenyl ether, stirred with 290 parts water, homogenized, and mixed with 10 parts titania aqueous dispersion to obtain a coating composition

ST

polysiloxane silsesquioxane antifouling coating titania photoconductor

IT

Polysiloxanes, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(acrylic; antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)

IT

Photoconductors

Surfactants

(antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)

IT

Acrylic polymers, uses

Alkyd resins

Aminoplasts

Chlorinated natural rubber

Epoxy resins, uses

Fluoropolymers, uses

Phenolic resins, uses

Polyesters, uses

Polysiloxanes, uses

Polyurethanes, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)

IT

Coating materials

(antifouling; antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)

IT

25498-03-7P, Methyltrimethoxysilane homopolymer 111740-14-8P, Butyl methacrylate-trimethoxysilylpropyl methacrylate-glycidyl methacrylate copolymer 153315-80-1P, Methyltrimethoxysilane homopolymer, ladder sru 156940-48-6P, Methyltrimethoxysilane-dimethyldimethoxysilane-tetraethoxysilane copolymer 209261-07-4P, Methyltrichlorosilane-dimethyldichlorosilane-phenyltrichlorosilane-methyltrimethoxysilane-dimethyldimethoxysilane copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)

IT

9016-45-9, Polyethylene glycol nonylphenyl ether 13463-67-7, STS 01, uses 25155-30-0, Sodium dodecylbenzenesulfonate

RL: MOA (Modifier or additive use); USES (Uses)

(antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)

IT

9003-08-1, Melamine resin 9005-12-3, Methylphenylsilanediol homopolymer, sru 9016-00-6, Dimethylsilanediol homopolymer, sru 31230-04-3, Methylphenylsilanediol homopolymer 31900-57-9, Dimethylsilanediol homopolymer

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(antifouling silicone emulsion coating compns., manufacture thereof and antifouling articles coated therewith)



RE.CNT 1      THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
RE  
(1) Giken Kogyo Corp; JP 6183106 A 1986

=> d his

(FILE 'HOME' ENTERED AT 10:09:57 ON 11 JAN 2008)

FILE 'CAPLUS' ENTERED AT 10:10:24 ON 11 JAN 2008

L1	9191 S ANTIFOUL? OR ANTI ADJ FOUL?
L2	463 S L1 AND PHOTO?
L3	72 S L2 AND (FLUORO? OR PERFLUORO? OR DIFLUOR? OR TRIFLUOR? OR TET
L4	1 S L3 AND (METHYLOL? OR DIMETHYLOL? OR TRIMETHYLOL? OR TETRAMETH
L5	1 S L3 AND CYMEL
L6	1 S L5 NOT L4
L7	3 S 9003-08-1/RN AND L3
L8	2 S L7 NOT L6

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
60.48	60.69

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.20	-3.20

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STN INTERNATIONAL LOGOFF AT 10:14:08 ON 11 JAN 2008